

GITs and GitHub

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

What GITs are and why they're useful

- ▶ **GIT = Online repository for saving versions of code**
- ▶ The old solution was to save them on local hard drives, but it was inefficient
 - This system is easy to set up and access in the cloud
 - GIT helps you keep track of what other team members are working on and what's the latest version of the code
- ▶ **GitHub = A company that took the GIT process and made their own large service for saving code**
- "Forking" = modifying a version of code to make your own version
- A lot of people fork using GITs

See you next lecture!

Covered in this lecture:

What OOP is and what it does

- ▶ **OOP = Object Oriented Programming**
- ▶ The standard way of developing something is called a procedural paradigm
- OOP is a new paradigm that allows you to think of programming like real objects instead of instructions
- OOP is a collection of functions and data that can be grouped into what's called an object
- ▶ When you need to access an object, you instantiate a class that contains it
- OOP helps you save time by grouping bunches of data and functions together
- You can then apply attributes broadly across one or several objects
- ▶ OOP is more scalable than procedural

See you next lecture!

Continuous integration

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

What continuous integration means

- ▶ Integration means combining two parts of code together
- ▶ Continuous integration is part of a system protocol that includes:
 - Continuous delivery
 - Continuous deployment
 - Continuous integration
- ▶ **Continuous integration is making an elaborate server setup that can automatically do the integrations for you**
- ▶ It makes everyone check in more often to see if what they're making fits with what others are making, or if there are other issues
- ▶ This system makes solving problems easier and makes the development process faster
- ▶ It's usually used by larger teams

See you next lecture!